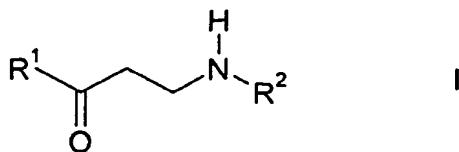


This listing of claims will replace all prior versions, and listings, of claims in the application:

LISTING OF CLAIMS:

1. **(Currently Amended)** Monoalkylaminoketones Monoalkylaminoketone compounds of the formula I



in which

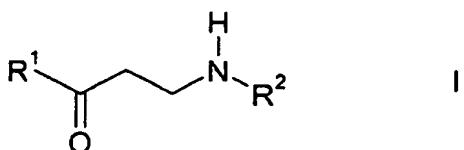
R¹ denotes a saturated, unsaturated or aromatic heterocyclic radical which is unsubstituted or mono- or polysubstituted by R³ and/or R⁴,

R² denotes alkyl having 1-20 C atoms,

R³, R⁴ each, independently of one another, denote H, alkyl or alkoxy having 1-20 C atoms, aryl, aryloxy or COOR², F, Cl, Br, OH, CN, NO₂, N(R²)₂ or NHCOR₂ NHCOR²,

and salts and solvates thereof.

2. **(Currently Amended) (withdrawn)** Process for the preparation of monealkylaminoketones monoalkylaminoketone compounds of the formula I



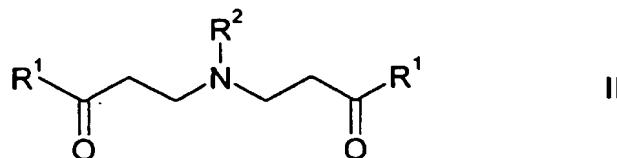
in which

R¹ denotes a saturated, unsaturated or aromatic heterocyclic radical which is unsubstituted or mono- or polysubstituted by R³ and/or R⁴,

R² denotes alkyl having 1-20 C atoms,

R^3, R^4 each, independently of one another, denote H, alkyl or alkoxy having 1-20 C atoms, aryl, aryloxy or COOR^2 , F, Cl, Br, OH, CN, NO_2 , $\text{N}(R^2)_2$ or NHCOR_2 NHCOR^2 ,

by reaction of compounds of the formula II

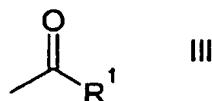


in which

R^1 and R^2 have the meaning indicated above, in the presence of an alkylamine of the formula $R^2\text{NH}_2$, in which R^2 has the meaning indicated above.

3. **(Currently Amended) (withdrawn)** Process according to Claim 1 Claim 2, in which R^1 denotes phenyl or 2-thienyl.
4. **(Currently Amended) (withdrawn)** Process according to Claim 1 Claim 2, in which R^2 denotes methyl, ethyl, n-propyl or isopropyl.
5. **(Currently Amended) (withdrawn)** Process for the preparation of compounds of the formula I according to claim 1, characterised in that wherein the pH for the conversion of the compounds of the formula II into the compounds of the formula I is adjusted to about pH 2-7.5 by addition of an alkylamine of the formula $R^2\text{NH}_2$.
6. **(Previously presented) (withdrawn)** Process for the preparation of compounds of the formula I according to claim 1, characterised in that wherein the conversion of the compounds of the formula II into the compounds of the formula I is carried out at 0° - 200°C .

7. (Currently Amended) (withdrawn) Process for the preparation of compounds of the formula I according to claim 1 ~~one or more of Claims 1 to 5, characterised in that wherein~~ firstly the compound of the formula II is obtained by reaction of a mixture of a formaldehyde source with a corresponding alkylammonium salt and a ketone of the formula III



in which R¹ has the meaning indicated in Claim 1,
in the presence of a strong acid, and the compounds of the formula II obtained in this way are employed without further isolation for the preparation of the compounds of the formula I.

8. (Currently Amended) (withdrawn) Process for the preparation of compounds of the formula I according to Claim 6, ~~characterised in that wherein~~ the pH of the strongly acidic reaction mixture comprising the compounds of the formula II is increased to about pH 2-7.5, without further isolation of this compound, by addition of an alkylamine of the formula R²NH₂, and the mixture is subsequently warmed.

9. (Currently Amended) (withdrawn) Process for the preparation of compounds of the formula I according to Claim 7, ~~characterised in that wherein~~ the reaction mixture comprising the compounds of the formula II is warmed to 0°C to 200°C after addition of a corresponding alkylamine.

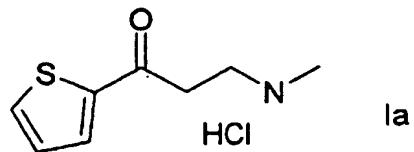
10. (Currently Amended) (withdrawn) Process according to ~~claim 1~~ claim 2 for the preparation of 3-methylamino-1-phenyl-1-propanone or 3-methylamino-1-(2-thienyl)-1-propanone.

11. (Currently Amended) (withdrawn) Process according to claim 1, ~~characterised in that wherein~~ an acid-addition salt of the compound of the formula II is employed, and an acid-addition salt of the compound of the formula I is obtained.

12. (Currently Amended)

Compound A compound of claim 1 which is of the formula

Ia:

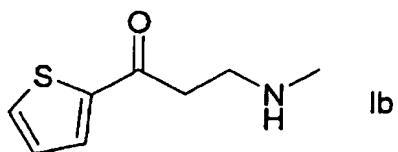


Ia

13. (Currently Amended)

Compound A compound of claim 1 which is of the formula

Ib:



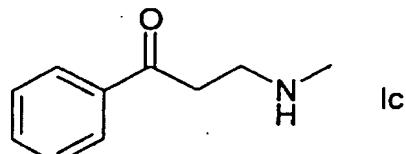
Ib

and salts and solvates thereof.

14. (Original) (withdrawn)

Compound A compound of claim 1 which is of the formula

Ic:



Ic

and salts and solvates thereof.

- 15. (New)** A compound of claim 1, wherein R¹ denotes phenyl or 2-thienyl.
- 16. (New)** A compound of claim 1, wherein R² denotes methyl, ethyl, n-propyl or isopropyl.
- 17. (New)** A compound of claim 1, wherein R¹ is selected from: 2- or 3-furyl, 2- or 3-thienyl, 1-, 2- or 3-pyrrolyl, 1-, 2-, 4- or 5-imidazolyl, 1-, 3-, 4- or 5-pyrazolyl, 2-, 4- or 5-oxazolyl, 3-, 4- or 5-isoxazolyl, 2-, 4- or 5-thiazolyl, 3-, 4- or 5-isothiazolyl, 2-, 3- or 4-pyridyl, 2-, 4-, 5- or 6-pyrimidinyl, furthermore preferably 1,2,3-triazol-1-, -4- or -5-yl, 1,2,4-triazol-1-, -3- or 5-yl, 1- or 5-tetrazolyl, 1,2,3-oxadiazol-4- or -5-yl, 1,2,4-oxadiazol-3- or -5-yl, 1,3,4-thiadiazol-2- or -5-yl, 1,2,4-thiadiazol-3- or -5-yl, 1,2,3-thiadiazol-4- or -5-yl, 3- or 4-pyridazinyl, pyrazinyl, 1-, 2-, 3-, 4-, 5-, 6- or 7-indolyl, 4- or 5-isoindolyl, 1-, 2-, 4- or 5-benzimidazolyl, 1-, 3-, 4-, 5-, 6- or 7-benzopyrazolyl, 2-, 4-, 5-, 6- or 7-benzoxazolyl, 3-, 4-, 5-, 6- or 7-benzisoxazolyl, 2-, 4-, 5-, 6- or 7-benzothiazolyl, 2-, 4-, 5-, 6- or 7-benzisothiazolyl, 4-, 5-, 6- or 7-benz-2,1,3-oxadiazolyl, 2-, 3-, 4-, 5-, 6-, 7- or 8-quinolyl, 1-, 3-, 4-, 5-, 6-, 7- or 8-isoquinolyl, 3-, 4-, 5-, 6-, 7- or 8-cinnolinyl, 2-, 4-, 5-, 6-, 7- or 8-quinazolinyl, 5- or 6-quinoxalinyl, 2-, 3-, 5-, 6-, 7- or 8-2H-benzo[1,4]oxazinyl, 1,3-benzodioxol-5-yl, 1,4-benzodioxan-6-yl, 2,1,3-benzothiadiazol-4- or -5-yl, 2,1,3-benzoxadiazol-5-yl, 2,3-dihydro-2-, -3-, -4- or -5-furyl, 2,5-dihydro-2-, -3-, -4- or 5-furyl, tetrahydro-2- or -3-furyl, 1,3-dioxolan-4-yl, tetrahydro-2- or -3-thienyl, 2,3-dihydro-1-, -2-, -3-, -4- or -5-pyrrolyl, 2,5-dihydro-1-, -2-, -3-, -4- or -5-pyrrolyl, 1-, 2- or 3-pyrrolidinyl, tetrahydro-1-, -2- or -4-imidazolyl, 2,3-dihydro-1-, -2-, -3-, -4- or -5-pyrazolyl, tetrahydro-1-, -3- or -4-pyrazolyl, 1,4-dihydro-1-, -2-, -3- or -4-pyridyl, 1,2,3,4-tetrahydro-1-, -2-, -3-, -4-, -5- or -6-pyridyl, 1-, 2-, 3- or 4-piperidinyl, 2-, 3- or 4-morpholinyl, tetrahydro-2-, -3- or -4-pyranyl, 1,4-dioxanyl, 1,3-dioxan-2-, -4- or -5-yl, hexahydro-1-, -3- or -4-pyridazinyl, hexahydro-1-, -2-, -4- or -5-pyrimidinyl, 1-, 2- or 3-piperazinyl, 1,2,3,4-tetrahydro-1-, -2-, -3-, -4-, -5-, -6-, -7- or -8-quinolyl, 1,2,3,4-tetrahydro-1-, -2-, -3-, -4-, -5-, -6-, -7- or -8-isoquinolyl, 2-, 3-, 5-, 6-, 7- or 8-3,4-dihydro-2H-benzo[1,4]oxazinyl, 2,3-methylenedioxyphenyl, 3,4-methylenedioxyphenyl, 2,3-ethylenedioxyphenyl, 3,4-ethylenedioxyphenyl, 3,4-(difluoromethylenedioxy)phenyl, 2,3-dihydrobenzofuran-5- or 6-yl, 2,3-(2-oxomethylenedioxy)phenyl, 3,4-dihydro-2H-1,5-benzodioxepin-6- or -7-yl, 2,3-dihydrobenzofuranyl or 2,3-dihydro-2-oxofuranyl, each optionally substituted by R³ and/or R⁴.